

ABSTRACT OF THE DISCLOSURE

A static attitude measurement device measures the static attitude of a target, such as a head suspension assembly or component, and reduces the possibility of measurement errors due to stray spots and internal reflections. The device includes a light source for producing a light beam, a beam splitter for directing the light beam toward the target from which a reflected beam is returned, a detector for detecting the reflected beam at a predetermined polarization state and a polarization component for producing the predetermined polarization state in the reflected beam, the polarization component positioned between the beam splitter and the target. The polarization component preferably is a quarter-wave plate to produce a reflected beam that is orthogonally polarized with respect to the incident beam. In addition, the directional optics preferably include a polarizer positioned between before the beam splitter to reduce reflection off of the light source.

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